

ABSTRACT

This invention provides a DDR type zeolite membrane, characterized in that it is formed as a membrane on a substrate
5 and its main component is silica, and that each single gas permeance at room temperature and 100°C are different, respectively among at least two types of gases selected from a group consisting of carbon dioxide (CO₂), hydrogen (H₂), oxygen (O₂), nitrogen (N₂), methane (CH₄), normal butane
10 (n-C₄H₁₀), isobutane (i-C₄H₁₀), sulfur hexafluoride (SF₆), ethane (C₂H₆), ethylene (C₂H₄), propane (C₃H₈), propylene (C₃H₆), carbon monoxide (CO), and nitrogen monoxide (NO).